

TITLE OF THE INVENTION

SELF-INDUCED DELETION OF DNA

ABSTRACT OF THE DISCLOSURE

The present invention is directed to a method for deleting DNA sequences in a tissue specific manner. In one embodiment, DNA sequences are specifically deleted in germline tissue. In a second embodiment, DNA sequences are specifically deleted in desired somatic tissue. The present invention is further directed to a nucleic acid molecule for use in the method. More specifically, a nucleic acid molecule is provide by the present invention which comprises (a) a recombinase site, (b) a tissue-specific promoter, (c) a recombinase gene, (d) a foreign DNA, and (e) a recombinase site. The nucleic acid molecule may further comprise a gene which is desired to be incorporated into and expressed in a transgenic organism. The method can be used in both plants and animals, and has many applications as described herein.

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